

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,997	07/21/2003	Dale W. Petty	EH-10662R (02-391)	9899
34704 7.	590 04/25/2006		EXAMINER	
BACHMAN & LAPOINTE, P.C. 900 CHAPEL STREET			RODRIGUEZ, WILLIAM H	
SUITE 1201			ART UNIT	PAPER NUMBER
NEW HAVEN, CT 06510			3746	
			DATE MAILED: 04/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summans	10/625,997	PETTY ET AL.				
Office Action Summary	Examiner	Art Unit				
	William H. Rodriguez	3746				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed he mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Fe	bruary 2006.					
3) Since this application is in condition for allowan	secution as to the merits is					
closed in accordance with the practice under E	·					
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) 6-8 is/are withdrawn f	rom consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.	_					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner						
10) The drawing(s) filed on 02 February 2004 is/are		I to by the Examiner.				
Applicant may not request that any objection to the o		•				
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Exa						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	1. Certified copies of the priority documents have been received.					
Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priori	ity documents have been receive	d in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date <u>12/27/04</u> .	6) Other:	F				

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I (claims 1-5) in the reply filed on 2/27/06 is acknowledged.

Abstract

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The current abstract contains less than 50 words and does not describe the invention sufficiently. Appropriate correction is required.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: There is no proper antecedent basis for: "the environmental structure" and "the means for restricting" in the specification, see claims 2 and 3. What elements are called the environmental structure and the means for restricting (in the drawings and specification)?

Claim Objections

4. Claim 3 is objected to because of the following informalities:

In claim 3 line 2, the recitation "said means" is presumed to be --said means for restricting-- for proper clarity. Appropriate correction is required.

Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the plurality of flap subassemblies axisymmetrically arranged about an engine centerline (claim 5)" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/625,997 Page 4

Art Unit: 3746

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

7. Claims 2-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

With respect to claims 2 and 3, it is unclear from the disclosure what applicant calls the

"the environmental structure" and "the means for restricting" in the specification, see claims 2

and 3. What elements are called or form the environmental structure and the means for

restricting (in the drawings and specification)?. Appropriate correction is required.

Claim 3 recites the limitation "the divergent flap" in line 3. There is insufficient

antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the throat" in line 9. There is insufficient antecedent basis

for this limitation in the claim.

A prior art search has been attempted to the Examiner's best understanding of the

invention. However, due to the deficiencies of the claims (claims 2-3) and the specification a

full and complete application of the prior art to the claims was not possible. Lack of an art

rejection with regards to claims 2 and 3 should not be construed as an indication of allowable

subject matter. For the other claims 1, 4 and 5, see detail rejections below.

Application/Control Number: 10/625,997

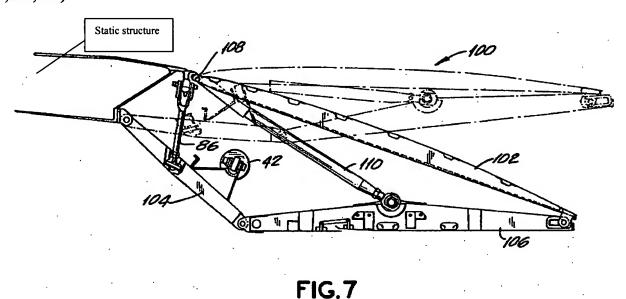
Art Unit: 3746

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1, 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Nash (US 5,176,323).

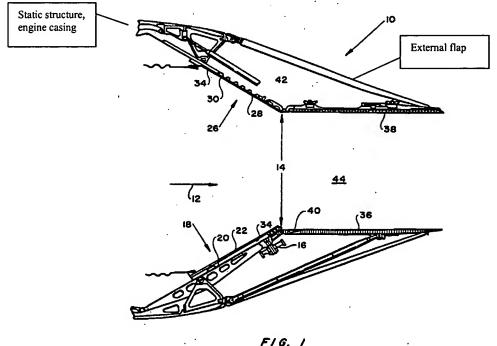


Nash teaches a turbine engine nozzle comprising: a static structure; a plurality of flap subassemblies arranged about an engine centerline comprising: an upstream flap 104; a downstream flap 106 pivotally coupled to the upstream flap for relative rotation about a hinge axis; an external flap 102 and an actuator linkage 110 couple to the downstream flap along a forward half thereof for actuating the upstream and downstream flaps so that the throat area is varied within a range of areas (min. and max. areas). See particularly cl. 5 ll. 28-30 and Figure

Claims 1, 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Tseng et 10. al. (US 6,240,720).

Tseng teaches a turbine engine nozzle comprising: a static structure 22; a plurality of flap subassemblies arranged about an engine centerline comprising: an upstream flap 32; a downstream flap 34 pivotally coupled to the upstream flap for relative rotation about a hinge axis; an external flap 33 and an actuator linkage 36 couple to the downstream flap along a forward half thereof for actuating the upstream and downstream flaps so that the throat area is varied within a range of areas (min. and max. areas). See particularly cl. 3 ll. 64-67 and Figure 2.

Claims 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Barcza (US 11. 5,111,992).



F/G. 1

Barcza teaches a turbine engine nozzle comprising: a static structure; a plurality of flap subassemblies arranged about an engine centerline comprising: an upstream flap 20; a downstream flap 36 pivotally coupled to the upstream flap for relative rotation about a hinge axis; an external flap and an actuator 16 for actuating the upstream and downstream flaps so that the throat area is varied within a range of areas (min., max. and intermediate areas). See particularly cl. 1 ll. 44-50; cl. 2 ll. 24-26 and Figure 1.

12. Claims 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by **Johnson (US 6,398,129)**.

Johnson teaches a turbine engine nozzle comprising: a static structure 41; a plurality of flap subassemblies arranged about an engine centerline comprising: an upstream flap 12; a downstream flap 14 pivotally coupled to the upstream flap for relative rotation about a hinge axis; an external flap 28 and an actuator 23 for actuating the upstream and downstream flaps so that the throat area is varied within a range of areas (min., max. and intermediate areas). See particularly cl. 2 ll. 11-12, 26-28 and Figure 1

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Rodriguez whose telephone number is 571-272-4831. The examiner can normally be reached on Monday-Friday 7:30 am to 5:00 pm.

Application/Control Number: 10/625,997 Page 8

Art Unit: 3746

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William H. Rodriguez 4/17/06
Primary Examiner
Art Unit 3746